

ANALYTICAL REPORT

PROJECT NO. 14948701

MIAMI FORT LLHG 2009

Lot #: A9I030312

Sue Wallace

Duke Energy Corporation PO Box 5385 Cincinnati, OH 45201

TESTAMERICA LABORATORIES, INC.

Kenneth J. Kuzior

Project Manager ken.kuzior@testamericainc.com

September 16, 2009



Approved for release Kenneth J. Kuzior Project Manager 9/16/2009 3:41 PM

CASE NARRATIVE

A9I030312

The following report contains the analytical results for ten water samples and one quality control sample submitted to TestAmerica North Canton by Cinergy from the Miami Fort LLHG 2009 Site, project number 14948701. The samples were received September 03, 2009, according to documented sample acceptance procedures.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to Candance Bonham, Mike Wagner, and Sue Wallace on September 11, 2009. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Kenneth J. Kuzior, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 19.9°C. The samples were received in wet ice

CASE NARRATIVE (continued)

SAMPLE RECEIVING

See TestAmerica's Cooler Receipt Form for additional information.

METALS

Matrix spike recovery and relative percent difference (RPD) data were not calculated for some analytes for 608WWT due to the sample concentration reading greater than four times the spike amount. See the Matrix Spike Report for the affected analytes which will be flagged with "NC, MSB".

Matrix spike recovery and relative percent difference (RPD) data were not calculated for some analytes for batch(es) 9247255 due to the sample concentration reading greater than four times the spike amount. See the Matrix Spike Report for the affected analytes which will be flagged with "NC, MSB".

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

OC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

• Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals ICP-MS	Metals ICP Trace
Methylene Chloride,	Phthalate Esters	Copper, Iron, Zinc,	Copper, Iron, Zinc, Lead
Acetone, 2-Butanone		Lead, Calcium,	
		Magnesium, Potassium,	
		Sodium, Barium,	
		Chromium, Manganese	

QUALITY CONTROL ELEMENTS NARRATIVE (continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.
- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.



TestAmerica Certifications and Approvals:

The laboratory is certified for the analytes listed on the documents below. These are available upon request. California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),

Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Nevada (#OH-000482008A), OhioVAP (#CL0024), Pennsylvania (#008), West Virginia (#210), Wisconsin (#999518190),NAVY, ARMY, USDA Soil Permit

N:\QAQC\Customer Service\Narrative - Combined RCRA CWA 032609.doc

EXECUTIVE SUMMARY - Detection Highlights

A9I030312

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
601(7)WWT 09/01/09 17:10 001				
Mercury	58.2	2.0	ug/L	SW846 7470A
601(8)WWT 09/01/09 17:15 002				
Mercury	172	4.0	ug/L	SW846 7470A
RI 09/01/09 17:35 004				
Mercury	2.0	0.50	ng/L	CFR136A 1631E
608WWT FB 09/02/09 06:30 005				
Mercury	0.72	0.50	ng/L	CFR136A 1631E
608WWT 09/02/09 06:40 006				
Mercury	63.4	5.0	ng/L	CFR136A 1631E
608WWT DUP 09/02/09 06:45 007				
Mercury	62.2	5.0	ng/L	CFR136A 1631E
OUTFALL 002 09/02/09 07:20 009				
Mercury	2.5	0.50	ng/L	CFR136A 1631E
OUTFALL 002 DUP 09/02/09 07:25 010				
Mercury	2.4	0.50	ng/L	CFR136A 1631E

ANALYTICAL METHODS SUMMARY

A9I030312

PARAMETER		ANALYTICAL METHOD
-	n Liquid Waste (Manual Cold-Vapor) Low Level Mercury, CVA Fluorescence	SW846 7470A CFR136A 1631E
Reference	s:	
CFR136A	"Methods for Organic Chemical Analysis o Industrial Wastewater", 40CFR, Part 136, October 26, 1984 and subsequent revision	Appendix A,
SW846	"Test Methods for Evaluating Solid Waste Methods", Third Edition, November 1986 a	

SAMPLE SUMMARY

A9I030312

<u>WO # 8</u>	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
LKAP8	001	601(7)WWT	09/01/09	17:10
LKAQC	002	601(8)WWT	09/01/09	17:15
LKAQD	003	RIFB	09/01/09	17:30
LKAQG	004	RI	09/01/09	17:35
LKAQJ	005	608WWT FB	09/02/09	06:30
LKAQM	006	608WWT	09/02/09	06:40
LKAQR	007	608WWT DUP	09/02/09	06:45
LKAQV	800	OUTFALL 002 FB	09/02/09	07:10
LKAQ1	009	OUTFALL 002	09/02/09	07:20
LKAQ3	010	OUTFALL 002 DUP	09/02/09	07:25
LKAQ7	011	TRIP BLANK	09/02/09	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Client Sample ID: 601(7)WWT

TOTAL Metals

Lot-Sample #...: A9I030312-001 **Matrix.....:** WG

Date Sampled...: 09/01/09 17:10 Date Received..: 09/03/09

REPORTING PREPARATION- WORK

PARAMETER RESULT UNITS METHOD ANALYSIS DATE ORDER #

Prep Batch #...: 9247017

Mercury 58.2 2.0 ug/L SW846 7470A 09/04/09 LKAP81AA

Client Sample ID: 601(8)WWT

TOTAL Metals

Lot-Sample #...: A9I030312-002 **Matrix.....:** WG

Date Sampled...: 09/01/09 17:15 Date Received..: 09/03/09

REPORTING PREPARATION- WORK

PARAMETER RESULT UNITS METHOD ANALYSIS DATE ORDER #

Prep Batch #...: 9247017

Mercury 172 4.0 ug/L SW846 7470A 09/04/09 LKAQC1AA

Client Sample ID: RIFB

TOTAL Metals

Lot-Sample #...: A9I030312-003 **Matrix.....:** WQ

Date Sampled...: 09/01/09 17:30 Date Received..: 09/03/09

REPORTING PREPARATION- WORK

PARAMETER RESULT UNITS METHOD ANALYSIS DATE ORDER #

Prep Batch #...: 9247255

Mercury ND 0.50 ng/L CFR136A 1631E 09/04-09/10/09 LKAQD1AA

Client Sample ID: RI

TOTAL Metals

Lot-Sample #...: A9I030312-004 Matrix....: WG

Date Sampled...: 09/01/09 17:35 Date Received..: 09/03/09

REPORTING PREPARATION- WORK

PARAMETER RESULT LIMIT UNITS METHOD ANALYSIS DATE ORDER #

Prep Batch #...: 9247255

2.0 0.50 ng/L CFR136A 1631E 09/04-09/10/09 LKAQG1AA Mercury

Client Sample ID: 608WWT FB

TOTAL Metals

Lot-Sample #...: A9I030312-005 Matrix....: WQ

Date Sampled...: 09/02/09 06:30 Date Received..: 09/03/09

REPORTING PREPARATION- WORK

PARAMETER RESULT LIMIT UNITS METHOD ANALYSIS DATE ORDER #

Prep Batch #...: 9247255

0.50 ng/L CFR136A 1631E 09/04-09/10/09 LKAQJ1AA Mercury 0.72

Client Sample ID: 608WWT

TOTAL Metals

Lot-Sample #...: A9I030312-006 Matrix....: WG

Date Sampled...: 09/02/09 06:40 Date Received..: 09/03/09

REPORTING PREPARATION- WORK PARAMETER RESULT LIMIT UNITS METHOD ANALYSIS DATE ORDER #

Prep Batch #...: 9247255

5.0 ng/L CFR136A 1631E 09/04-09/10/09 LKAQM1AA Mercury 63.4

Client Sample ID: 608WWT DUP

TOTAL Metals

Lot-Sample #...: A9I030312-007 Matrix....: WG

Date Sampled...: 09/02/09 06:45 Date Received..: 09/03/09

REPORTING PREPARATION- WORK

PARAMETER RESULT LIMIT UNITS METHOD ANALYSIS DATE ORDER #

Prep Batch #...: 9247255

62.2 5.0 ng/L CFR136A 1631E 09/04-09/10/09 LKAQR1AA Mercury

Client Sample ID: OUTFALL 002 FB

TOTAL Metals

Lot-Sample #...: A9I030312-008 Matrix.....: WQ

Date Sampled...: 09/02/09 07:10 Date Received..: 09/03/09

REPORTING PREPARATION- WORK

PARAMETER RESULT UNITS METHOD ANALYSIS DATE ORDER #

Prep Batch #...: 9247255

Mercury ND 0.50 ng/L CFR136A 1631E 09/04-09/10/09 LKAQV1AA

Client Sample ID: OUTFALL 002

TOTAL Metals

Lot-Sample #...: A9I030312-009 Matrix....: WG

Date Sampled...: 09/02/09 07:20 Date Received..: 09/03/09

REPORTING PREPARATION- WORK PARAMETER RESULT LIMIT UNITS METHOD ANALYSIS DATE ORDER #

Prep Batch #...: 9247255

0.50 ng/L CFR136A 1631E 09/04-09/10/09 LKAQ11AA Mercury 2.5

Client Sample ID: OUTFALL 002 DUP

TOTAL Metals

Lot-Sample #...: A9I030312-010 **Matrix.....:** WG

Date Sampled...: 09/02/09 07:25 Date Received..: 09/03/09

REPORTING PREPARATION- WORK

PARAMETER RESULT UNITS METHOD ANALYSIS DATE ORDER #

Prep Batch #...: 9247255

Mercury 2.4 0.50 ng/L CFR136A 1631E 09/04-09/10/09 LKAQ31AA

Client Sample ID: TRIP BLANK

TOTAL Metals

Lot-Sample #...: A9I030312-011 Matrix.....: WQ

REPORTING PREPARATION- WORK

PARAMETER RESULT UNITS METHOD ANALYSIS DATE ORDER #

Prep Batch #...: 9247255

Mercury ND 0.50 ng/L CFR136A 1631E 09/04-09/10/09 LKAQ71AA



QUALITY CONTROL SECTION

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A91030312 Matrix....: WATER

REPORTING PREPARATION- WORK

PARAMETER RESULT UNITS METHOD ANALYSIS DATE ORDER #

MB Lot-Sample #: A9I040000-017 Prep Batch #...: 9247017

Mercury ND 0.20 ug/L SW846 7470A 09/04/09 LKA2F1AU

Dilution Factor: 1

MB Lot-Sample #: A9I040000-255 Prep Batch #...: 9247255

Mercury ND 0.50 ng/L CFR136A 1631E 09/04-09/08/09 LKCR91AA

Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A9I030312 Matrix.....: WATER

PERCENT RECOVERY PREPARATION-

PARAMETER RECOVERY LIMITS METHOD ANALYSIS DATE WORK ORDER #

LCS Lot-Sample#: A9I040000-017 Prep Batch #...: 9247017

Mercury 96 (81 - 123) SW846 7470A 09/04/09 LKA2F1A5

Dilution Factor: 1

LCS Lot-Sample#: A9I040000-255 Prep Batch #...: 9247255

Mercury 86 (77 - 125) CFR136A 1631E 09/04-09/08/09 LKCR91AC

Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A9I030312 Matrix.....: WATER

Date Sampled...: 09/02/09 06:00 Date Received..: 09/03/09

 PERCENT
 RECOVERY
 RPD
 PREPARATION— WORK

 PARAMETER
 RECOVERY
 LIMITS
 RPD
 LIMITS
 METHOD
 ANALYSIS
 DATE
 ORDER #

 MS Lot-Sample
 #: A91030168-001
 Prep Batch
 #...:
 9247017

 Mercury
 105
 (69 - 134)
 SW846 7470A
 09/04/09
 LJ9JT1A9

09/04/09 LJ9JT1CA

(69 - 134) 3.8 (0-20) SW846 7470A

Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

101

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A9I030312 Matrix.....: WATER

Date Sampled...: 09/02/09 08:55 Date Received..: 09/02/09

PERCENT RECOVERY RPD PREPARATION- WORK

<u>PARAMETER</u> <u>RECOVERY LIMITS</u> <u>RPD LIMITS METHOD</u> <u>ANALYSIS DATE ORDER #</u>

MS Lot-Sample #: A9I020252-002 Prep Batch #...: 9247255

Mercury NC,MSB (71 - 125) CFR136A 1631E 09/04-09/10/09 LJ73D1AC

NC,MSB (71 - 125) (0-24) CFR136A 1631E 09/04-09/10/09 LJ73D1AD

Dilution Factor: 20

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD may be outside control limits because the sample amount was greater than 4X the spike amount.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Date Sampled...: 09/02/09 06:40 Date Received..: 09/03/09

PERCENT RECOVERY RPD PREPARATION- WORK

PARAMETER RECOVERY LIMITS RPD LIMITS METHOD ANALYSIS DATE ORDER #

MS Lot-Sample #: A9I030312-006 Prep Batch #...: 9247255

Mercury NC,MSB (71 - 125) CFR136A 1631E 09/04-09/10/09 LKAQM1AC

NC,MSB (71 - 125) (0-24) CFR136A 1631E 09/04-09/10/09 LKAQM1AD

Dilution Factor: 10

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD may be outside control limits because the sample amount was greater than 4X the spike amount.

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-5018 (1008)

©2006, TestAmerica Laboratories, Inc. All rights reserved. TestAmerica & Design ^{ra} are trademarks of TestAmerica Laboratories, Inc.

Chain of Custody Record

THE LEADER IN ENVIRONMENTAL	TestAm
NMENTAL TESTING	erica

TAL-0018 (1008)					02006, TestAmerica Laborolories, inc. All rights reserved. TestAmerica & Design ^{го,} are tradements of TestAmerica (aboratories, inc.
Day ime	Company, M	Received in Laboratop Av:	Date/Time:	Company:	sturquisirea by
Date/Time:	Company:	1/30 Received by:	_	10st America	Market by
9/3/69 10/12	Company:	CONCERNIA ZUM	Date/Time: 1/2/0-5 /	Company:	clinonisted by:
nths	Sed if samples are retained longer than 1 month) Disposal By Lab Archive For Months	Sample Disposal (A fee may be assessed if samples at Lab Return to Client Disposal By Lab	Unknown [Skin Irritant Poison B	pectal Instructions/QC Requirements & Comments:
					Possible Hazard Identification
-					
	*	2 NG	7		Tap Blank
Sample Specific Notes / Special Instructions:	LL U	HNO3 HC1 NaOH ZnAc/ NaOH Unpres Other:	Air Aqueous Sediment Solid Other:	Sample Date Sample Time	Sample Identification
		1 day			1998 (D)
	163			Shipping/Tracking No:	Project Number:
		3 weeks	Method of Shipment/Carrier:	Method of Shipment/Carrier:	Project Name:
		[AT if different from be	to a r	م (ه) د مراا در احداث	Phone:
	Anglyses	Sandy and Control of Control	19Com Com	wite wave @ Urocoro co	North Band Or
2 of 2 cocs	Telephone:	1-3440		(513) 651-340	Missin but Station
COC No:	Lab Contact:	Men Decky	(UPS Corp) 3	Dagmet	Dit Ewary
TestAmerica Laboratories, Inc.				Client Project Management	Chent Contact
THE LEADER IN ENVIRONMENTAL TESTING		PDES RCRA Other	DW NPDES	TestAmerica Laboratory location:	

TestAmerica Cooler Receipt Form/Narrative Lo	Number: <u>H97030812</u>
North Canton Facility	1
Client Duke Energy Project	By:
Cooler Received on 9/3/09 Opened on 9/3/09	(Cignoture)
FedEx UPS DHL FAS Stetson X Client Drop Off Total TestAmer	ica Courier C Othor
TestAmerica Cooler # 17 1003 Multiple Coolers Foam Box Cli	ent Cooler Other
	ct? Yes \(\) No \(\) NA \(\)
If YES, Quantity Quantity Unsalvageable	OCT TO THE TANK
Were custody seals on the outside of cooler(s) signed and dated?	Yes □ No □ NA ☒
Were custody seals on the bottle(s)?	Yes No X
If YES, are there any exceptions?	102 [] 140 [[]
2. Shippers' packing slip attached to the cooler(s)?	Yes 🗌 No 🛛
	Relinquished by client? Yes 🗵 No 🗌
4. Were the custody papers signed in the appropriate place?	Yes X No
5. Packing material used: Bubble Wrap 💢 Foam 🕅 None 🗌 Other	Les 15 MO T
6. Cooler temperature upon receipt 9.9 °C See back of form for m	
METHOD: IR 🗵 Other 🗌	uniple coolers/temps
COOLANT: Wet Ice Blue Ice Dry Ice Water Nor	. □
7. Did all bottles arrive in good condition (Unbroken)?	- - -
Could all bottle labels be reconciled with the COC?	
9. Were sample(s) at the correct pH upon receipt?	Yes 🔀 No 🗌
10. Were correct bottle(s) used for the test(s) indicated?	Yes No NA NA William
11. Were air bubbles >6 mm in any VOA vials?	Yes X No X
	Yes No No NA
12. Sufficient quantity received to perform indicated analyses?	Yes No \
	the COO? Yes No No.
	via Verbal ☐ Voice Mail ☐ Other ☐
Concerning	
14. CHAIN OF CUSTODY	
14. CHAIN OF CUSTODY The following discrepancies occurred:	
14. CHAIN OF CUSTODY The following discrepancies occurred:	skay for metals
14. CHAIN OF CUSTODY The following discrepancies occurred: High Tem - No Codant. Po ceived Ton Blank note	Coc Ontal-La
14. CHAIN OF CUSTODY The following discrepancies occurred: High Tem - No Codant. Received Trip Blank note	on Coc. ama/3/09
The following discrepancies occurred: High Tem - No Coolant. Received Trip Blank note Ha not poes win Feeing - lab to Surther	on Coc. ama/3/09
14. CHAIN OF CUSTODY The following discrepancies occurred: High Tem - No Codant. Received Trip Blank note	on Coc. ama/3/09
The following discrepancies occurred: High Tem - No Coolant. Received Trip Blank note Ha not poes win Feeing - lab to Surther	on Coc. ama/3/09
The following discrepancies occurred: High Tem - No Coolant. Received Trip Blank note Ha not poes win Feeing - lab to Surther	on Coc. ama/3/09
14. CHAIN OF CUSTODY The following discrepancies occurred: High Tem - No Codant. Received Trip Blank note Ha not president receng - lab to Surther amalala	on Coc. ama/3/09
14. CHAIN OF CUSTODY The following discrepancies occurred: High Tem - No Codant. Received Trip Blank note Ha not presiden 2 anglelog Jab to Sorther anglelog Jab to Sorther	pres
14. CHAIN OF CUSTODY The following discrepancies occurred: High Tem - No Codant. Pace west The Blank note Ha not pros with record - lab to disther amal 8107 15. SAMPLE CONDITION Sample(s) were received after the record.	pres pres
The following discrepancies occurred: High Tem - No Codant. Received Trip Blank note Ha not person record - lab to disther amalela - lab to disther amalela - lab to disther sample(s) were received after the record sample(s)	ommended holding time had expired. were received in a broken container.
14. CHAIN OF CUSTODY The following discrepancies occurred: High Tem - No Codant. Received Trip Blank note Ha not president record - lab to distlier ama 18107 15. SAMPLE CONDITION Sample(s) were received after the received sample(s) Sample(s) were received with but	pres pres
The following discrepancies occurred: High Ten No Codant. Ha not pres who 2 coung - lab to disther amaleles 15: SAMPLE CONDITION Sample(s) were received after the received sample(s) Sample(s) were received with but 16. SAMPLE PRESERVATION	ommended holding time had expired. were received in a broken container. bble >6 mm in diameter. (Notify PM)
The following discrepancies occurred: High Tem - No Codant. Figure - No Codant. High Tem - No Codant. Figure - No	ommended holding time had expired. were received in a broken container. bble >6 mm in diameter. (Notify PM)
The following discrepancies occurred: High Tem—No Codant Received This Blank note Ha not president for facing—lab to forther and	ommended holding time had expired. were received in a broken container. bble >6 mm in diameter. (Notify PM) further preserved in Sample c Acid Lot# 100108-H ₂ SO ₄ ; Sodium
The following discrepancies occurred: High Tem No Codant. Face were received after the received after the received after the received with but the sample of the	ommended holding time had expired. were received in a broken container. bble >6 mm in diameter. (Notify PM) further preserved in Sample c Acid Lot# 100108-H ₂ SO ₄ ; Sodium
The following discrepancies occurred: High Tenn No Codant. Ha not present The Blank note Ha not present True and to forther amalelog Sample(s) Sample(s) Sample(s) Sample(s) Were received after the received with but 16. SAMPLE PRESERVATION Sample(s) Receiving to meet recommended pH level(s). Nitric Acid Lot# 031909-HNO3; Sulfuric Hydroxide Lot# 100108 -NaOH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide and (CH3COO)2ZN/NaOH. What time was preservative added to sample(s)?	ommended holding time had expired. were received in a broken container. bble >6 mm in diameter. (Notify PM) further preserved in Sample c Acid Lot# 100108-H ₂ SO ₄ ; Sodium and Zinc Acetate Lot# 050205-
The following discrepancies occurred: High Ten No Codant. Received The Blank note Ha not problem 2 Query 1810 7 15: SAMPLE CONDITION Sample(s) were received after the received with but 16. SAMPLE PRESERVATION Sample(s) were received with but 16. SAMPLE PRESERVATION Were received with but 16. SAMPLE PRESERVATION Sample(s) were received with but 17. SAMPLE PRESERVATION Were received with but 18. SAMPLE PRESERVATION Sample(s) were received with but 18. SAMPLE PRESERVATION Were received with but 18. SAMPLE CONDITION Were received with but 18. SAMPLE COND	ommended holding time had expired. were received in a broken container. bble >6 mm in diameter. (Notify PM) further preserved in Sample c Acid Lot# 100108-H ₂ SO ₄ ; Sodium and Zinc Acetate Lot# 050205-
The following discrepancies occurred: High Ten No Codant. Ha not persion 2 carry Pab to Certher ama \$10.7 15. SAMPLE CONDITION Sample(s) Sample(s) Sample(s) Sample(s) Were received after the received with but to the sample to meet recommended pH level(s). Nitric Acid Lot# 031909-HNO3; Sulfurith Hydroxide Lot# 100108 -NaOH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide a (CH3COO)2ZN/NaOH. What time was preservative added to sample(s)? Client ID DH COLOR TO CODATT OF THE PRESERVATION PH COLOR TO CODATT OF THE PRESERVATION Were received with but the sample to meet recommended pH level(s). Nitric Acid Lot# 031909-HNO3; Sulfurith Hydroxide Lot# 100108 -NaOH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide a (CH3COO)2ZN/NaOH. What time was preservative added to sample(s)?	ommended holding time had expired. were received in a broken container. bble >6 mm in diameter. (Notify PM) further preserved in Sample c Acid Lot# 100108-H ₂ SO ₄ ; Sodium and Zinc Acetate Lot# 050205-
The following discrepancies occurred: High Ten No Codant. Received The Blank note Ha not problem 2 Query 1810 7 15: SAMPLE CONDITION Sample(s) were received after the received with but 16. SAMPLE PRESERVATION Sample(s) were received with but 16. SAMPLE PRESERVATION Were received with but 16. SAMPLE PRESERVATION Sample(s) were received with but 17. SAMPLE PRESERVATION Were received with but 18. SAMPLE PRESERVATION Sample(s) were received with but 18. SAMPLE PRESERVATION Were received with but 18. SAMPLE CONDITION Were received with but 18. SAMPLE COND	ommended holding time had expired. were received in a broken container. bble >6 mm in diameter. (Notify PM) further preserved in Sample c Acid Lot# 100108-H ₂ SO ₄ ; Sodium and Zinc Acetate Lot# 050205-
The following discrepancies occurred: High Ten No Codant. Ha not persion 2 carry Pab to Certher ama \$10.7 15. SAMPLE CONDITION Sample(s) Sample(s) Sample(s) Sample(s) Were received after the received with but to the sample to meet recommended pH level(s). Nitric Acid Lot# 031909-HNO3; Sulfurith Hydroxide Lot# 100108 -NaOH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide a (CH3COO)2ZN/NaOH. What time was preservative added to sample(s)? Client ID DH COLOR TO CODATT OF THE PRESERVATION PH COLOR TO CODATT OF THE PRESERVATION Were received with but the sample to meet recommended pH level(s). Nitric Acid Lot# 031909-HNO3; Sulfurith Hydroxide Lot# 100108 -NaOH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide a (CH3COO)2ZN/NaOH. What time was preservative added to sample(s)?	ommended holding time had expired. were received in a broken container. bble >6 mm in diameter. (Notify PM) further preserved in Sample c Acid Lot# 100108-H ₂ SO ₄ ; Sodium and Zinc Acetate Lot# 050205-
The following discrepancies occurred: High Ten No Codant. Ha not persion 2 carry Pab to Certher ama \$10.7 15. SAMPLE CONDITION Sample(s) Sample(s) Sample(s) Sample(s) Were received after the received with but to the sample to meet recommended pH level(s). Nitric Acid Lot# 031909-HNO3; Sulfurith Hydroxide Lot# 100108 -NaOH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide a (CH3COO)2ZN/NaOH. What time was preservative added to sample(s)? Client ID DH COLOR TO CODATT OF THE PRESERVATION PH COLOR TO CODATT OF THE PRESERVATION Were received with but the sample to meet recommended pH level(s). Nitric Acid Lot# 031909-HNO3; Sulfurith Hydroxide Lot# 100108 -NaOH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide a (CH3COO)2ZN/NaOH. What time was preservative added to sample(s)?	ommended holding time had expired. were received in a broken container. bble >6 mm in diameter. (Notify PM) further preserved in Sample c Acid Lot# 100108-H ₂ SO ₄ ; Sodium and Zinc Acetate Lot# 050205-
The following discrepancies occurred: High Ten No Codant. Ha not persion 2 carry Pab to Certher ama \$10.7 15. SAMPLE CONDITION Sample(s) Sample(s) Sample(s) Sample(s) Were received after the received with but to the sample to meet recommended pH level(s). Nitric Acid Lot# 031909-HNO3; Sulfurith Hydroxide Lot# 100108 -NaOH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide a (CH3COO)2ZN/NaOH. What time was preservative added to sample(s)? Client ID DH COLOR TO CODATT OF THE PRESERVATION PH COLOR TO CODATT OF THE PRESERVATION Were received with but the sample to meet recommended pH level(s). Nitric Acid Lot# 031909-HNO3; Sulfurith Hydroxide Lot# 100108 -NaOH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide a (CH3COO)2ZN/NaOH. What time was preservative added to sample(s)?	ommended holding time had expired. were received in a broken container. bble >6 mm in diameter. (Notify PM) further preserved in Sample c Acid Lot# 100108-H ₂ SO ₄ ; Sodium and Zinc Acetate Lot# 050205-
The following discrepancies occurred: High Ten No Codant. Ha not pressure 2 carry Blank note Ha not pressure 2 carry Blank note Ha not pressure 2 carry Blank note Amalision 2 carry Blank note Ha not pressure 2 carry Blank note Ha not pressure 2 carry Blank note Amalision 2 carry Blank note Ha not pressure 177 Blank note Amalision 2 carry Blank note Ha not pressure 177 Blank note Amalision 2 carry Blank note Ha not pressure 177 Blank note Amalision 2 carry Blank note Ha not pressure 177 Blank note Amalision 2 carry Blank note Ha not pressure 177 Blank	ommended holding time had expired. were received in a broken container. bble >6 mm in diameter. (Notify PM) further preserved in Sample c Acid Lot# 100108-H ₂ SO ₄ ; Sodium and Zinc Acetate Lot# 050205-

Client ID	На	<u>Date</u>	Initial
			<u> </u>
			<u> </u>
·		4.	
30			
	T	Method	Coolai
Cooler#	Temp. °C		<u> </u>
		•	
			*
		1	



END OF REPORT